## Claims Listing

Claims 1-34 were pending at the time of the Action.

Claims 1, 3-4, 12, 18-19, 21, 23, 26, and 34 have been amended.

Claims 16, 32, and 35-49 have been canceled.

Thus, claims 1-15, 17-31, and 33-34 remain pending in the application.

1. (Currently Amended) A method for processing information provided from at least one content provider about [[the]]a state of a plurality of objects, the states being subject to periodic updates, and for delivering formatted information indicating a current state of at least a portion of the plurality of objects to a plurality of clients via a data communication network in substantially real-time, the method comprising the steps of:

in an information manager:

receiving raw data objects on at least one raw data stream input;

generating a formatted data object from a received raw data object;

storing a current state of the formatted data object in an object

storage pool; and

broadcasting the current state of the formatted data object on a particular broadcast data stream;

in a client manager:

establishing communication sessions with a plurality of clients; connecting to at least one broadcast data stream;

receiving on a connected broadcast data stream a current state for a specific data object;

updating an object pool cache to reflect the current state of the specific data object; and

transmitting the current state of the specific data object to a set of clients selected from the plurality of clients;

wherein each connected client has a respective client event queue, the step of transmitting the current state of the specific data object to the set of clients comprises the steps of, for each respective client in the set of clients:

placing a state event in the client event queue associated with the respective client, the state event indicating the current state of the particular data object; and subsequently transmitting a client event derived from at least the state event in the client event queue to the respective client.

2. (Original) The method of claim 1, wherein the step of broadcasting the current state of the formatted data object comprises:

determining if a prior version of the formatted data object was present in the object storage pool;

if a prior version of the formatted data object was present, determining a data differential between the prior version and the current state of the formatted data object and broadcasting the data differential on the particular broadcast data stream;

otherwise, broadcasting the current state of the formatted data object on the particular broadcast data stream; 3. (Currently Amended) The method of claim 1, wherein each client has an associated profile comprising data indicating data stream subscriptions and at least one object rule associated with the subscribed data streams;

the step of transmitting the current state of the specific data object to a set of clients comprising the steps of:

for each respective client subscribed to [[the]]a particular input data stream, evaluating from the client profile associated with the respective client the object rules associated with the particular input data stream against the specific data object; and

transmitting the current state of the specific data object to the respective client in response to a positive evaluation.

4. (Currently Amended) The method of claim 1, wherein the step of connecting to at least one broadcast data stream comprises the steps of:

connecting to a first broadcast data stream from a first information manager; and

connecting to a second [[data ]]broadcast <u>data</u> stream from a second information manager.

- 5. (Original) The method of claim 1, wherein the step of broadcasting the current state comprises broadcasting a corresponding sequence number associated with the current state.
- 6. (Original) The method of claim 1, further comprising the step of determining an object type of the raw data object;

the step of generating the formatted data object comprising the step of applying a set of formatting rules to the received raw data object in accordance with the object type.

- 7. (Original) The method of claim 6, further comprising the step of translating the raw data object into a raw event comprising at least one name-value pair prior to performing the steps of determining an object type of the raw data object and generating a formatted data object.
- 8. (Original) The method of claim 1, further comprising the step of determining an object type of the raw data object;

the particular broadcast data stream being selected from a plurality of broadcast data streams according to the object type.

9. (Original) The method of claim 1, further comprising the steps of: validating the contents of the raw data object; and

upon a failed validation, preventing subsequent broadcast of the current state of the formatted data object data derived from the raw data object.

- 10. (Original) The method of claim 1, wherein the raw data object comprises information related to a financial product offering.
- 11. (Original) The method of claim 1, further comprising the step of, in the client manager:

after connecting to a particular broadcast data stream, initializing the object

pool cache with an initial state of data objects carried on the particular broadcast data stream.

- 12. (Currently Amended) The method of claim 1, further comprising the step of obtaining [[the]]an initial state of data objects from the information manager generating the particular broadcast data stream.
- 13. (Original) The method of claim 11, further comprising the step of, after establishing a communication session with a particular client, delivering to the particular client a snapshot of a set of data objects in the object pool cache which are carried on broadcast data streams to which the particular client is subscribed.
- 14. (Original) The method of claim 1, further comprising the step of, in the client manager:

in response to a detection that a particular client has subscribed to a new broadcast data stream not in a set of connected broadcast data streams, connecting to the new broadcast data stream.

15. (Original) The method of claim 14, further comprising the steps of, in the client manager:

initializing the object pool cache with an initial state of data objects carried on the new [[input]]broadcast data stream; and

delivering to the particular client a snapshot of a set of the data objects in the object pool cache associated with the new data stream.

## 16. (Canceled)

17. (Original) The method of claim 16, further comprising the steps of:

identifying pending state events associated with a respective client which are related to a common data object; and

aggregating the identified state events to thereby reduce the number of pending state events.

- 18. (Currently Amended) The method of claim 17, where the identified state events are aggregated into at 2 most onea single state event.
- 19. (Currently Amended) The method of claim 1, further comprising the steps of:

monitoring the performance of communication with each connected client; and

dynamically adjusting a rate at which the current state of the specific data <u>object</u> is transmitted to each respective client in response to the monitored performance.

20. (Original) The method of claim 19, wherein the step of monitoring the performance of communication with each connected client comprises determining network transmission time and a client processing time for received transmissions.

21. (Currently Amended) A system for processing information provided from at least one content provider about [[the]]a state of a plurality of objects, the states being subject to periodic updates, and for delivering formatted information indicating a current state of at least a portion of the plurality of objects to a plurality of clients via a data communication network in substantially real-time, the system comprising:

an information manager comprising at least one raw data stream as input, an object pool configured to store formatted data objects, and at least one broadcast data stream as output, each raw data stream carrying a plurality of raw data objects;

the information manager configured to:

generate a formatted data object from a received raw data object;

store a current state of the formatted data object in the object storage pool; and

broadcast the current state of the formatted data object on a particular broadcast data stream;

a client manager receiving at least one broadcast data stream as input, comprising an object pool cache, and connectable to a plurality of clients;

the client manager configured to:

establish communication sessions with a plurality of clients; connect to at least one broadcast data stream;

receive on a connected broadcast data stream a current state for a specific data object;

update an object pool cache to reflect the current state of the specific

data object; and

transmit the current state of the specific data object to a set of clients selected from the plurality of clients;

wherein the client manager further comprises a delivery manager comprising a client event queue associated with each client;

the delivery manager configured to:

queue state events directed to a particular client in the client event queue associated with the particular client, the state events indicating the current state of specific data objects; and

transmit a client events derived from queued state events to the respective client.

22. (Original) The system of claim 21, wherein the information manager is configured to:

determine if a prior version of the formatted data object was present in the object storage pool;

responsive to the determination that a prior version of the formatted data object was present, determine a data differential between the prior version and the current state of the formatted data object and broadcast the data differential on the particular broadcast data stream;

otherwise, broadcast the current state of the formatted data object on the particular broadcast data stream;

23. (Currently Amended) The system of claim 21, wherein the client manager further comprises a client profile database containing a plurality of client

11

profiles therein, each client profile comprising data indicating data stream subscriptions and at least one object rule associated with the subscribed data streams;

the client manager being further configured to, for each respective client subscribed to [[the]]a particular input data stream, evaluate from the client profile associated with the respective client the object rules associated with the particular input data stream against the specific data object to identify the set of clients.

- 24. (Original) The system of claim 21, wherein the client manager receives a first broadcast data stream from a first information manager and a second broadcast data stream from a second information manager.
- 25. (Original) The system of claim 21, wherein the information manager further comprises an offer processor configured to determine an object type of the raw data object and apply a set of formatting rules to the received raw data object in accordance with the object type to generate the formatted data object.
- 26. (Currently Amended) The system of claim 25, wherein the information manager fiuther further comprises a processing database having object typing and formatting rules stored therein.
- 27. (Previously Presented) The system of claim 25, wherein the information manager further comprises a translator receiving the raw data stream

12

LEE & HAYES, PLLC

as input and configured to translate the raw data object into a raw event comprising at least one name-value pair and provide the raw event as output;

the offer processor receiving the raw event as input.

- 28. (Original) The system of claim 25, wherein the client manager is configured to select the particular broadcast data stream from a plurality of broadcast data streams according to the determined object type.
- 29. (Original) The system of claim 21, wherein the client manager is further configured to:

validate the contents of the raw data object; and

upon a failed validation, prevent subsequent broadcast of the current state of the formatted data object data derived from the raw data object.

- 30. (Original) The system of claim 21, wherein the raw data object comprises information related to a financial product offering.
- 31. (Original) The system of claim 21, wherein the client manager is further configured to:

in response to a detection that a particular client has subscribed to a new broadcast data stream not in a set of connected broadcast data streams, connecting to the new broadcast data stream.

## 32. (Canceled)

33. (Original) The system of claim 32, wherein the delivery manager is further configured to:

identify pending state events associated with a respective client which are related to a common data object; and

aggregate the identified state events to thereby reduce the number of pending state events.

34. (Currently Amended) The system of claim 21, wherein the client manager is further configured to:

monitor the performance of communication with each connected client; and dynamically adjust a rate at which the current state of the specific data object is transmitted to each respective client in response to the monitored performance.

35.-49. (Canceled)